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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/666,144	09/20/2000	Vaijayanti A. Kumar	273944	5793
26694 VENABLE LL	7590 12/27/2006 P		EXAMINER	
P.O. BOX 3438	ANGELL, JON E			., JON E
WASHINGTO	N, DC 20043-9998		ART UNIT PAPER NUMBER	
			1635	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MO	NTHS	12/27/2006	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)			
Office Action Commence	09/666,144	KUMAR ET AL.	KUMAR ET AL.		
Office Action Summary	Examiner	Art Unit			
	Jon Eric Angell	1635	-		
The MAILING DATE of this communicate Period for Reply	tion appears on the cover sheet w	ith the correspondence addres	is		
A SHORTENED STATUTORY PERIOD FOR WHICHEVER IS LONGER, FROM THE MAIL  - Extensions of time may be available under the provisions of 3 after SIX (6) MONTHS from the mailing date of this communic  - If NO period for reply is specified above, the maximum statuto  - Failure to reply within the set or extended period for reply will, Any reply received by the Office later than three months after earned patent term adjustment. See 37 CFR 1.704(b).	ING DATE OF THIS COMMUNI 7 CFR 1.136(a). In no event, however, may a ation. ry period will apply and will expire SIX (6) MOI by statute, cause the application to become A	CATION. reply be timely filed  NTHS from the mailing date of this commul BANDONED (35 U.S.C. § 133).	·		
Status	•				
1)⊠ Responsive to communication(s) filed o	n 06 October 2006				
	☐ This action is non-final.				
3) Since this application is in condition for	<del></del> -	ters, prosecution as to the me	rits is		
closed in accordance with the practice		·	1110 10		
Disposition of Claims		,			
4)⊠ Claim(s) <u>14-20 and 24-26</u> is/are pendin	a in the application				
4a) Of the above claim(s) <u>15-18 and 25</u>		tion			
5)⊠ Claim(s) <u>14,19,20,24 and 26</u> is/are allow					
6) Claim(s) is/are rejected.	·				
		•			
	and/or alaction requirement				
8) Claim(s) are subject to restriction	rand/or election requirement.	. •			
Application Papers					
9) The specification is objected to by the E	xaminer.				
10)⊠ The drawing(s) filed on <u>20 September 2000</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by	the Examiner. Note the attache	d Office Action or form PTO-1	<b>52</b> .		
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for a) All b) Some * c) None of:	foreign priority under 35 U.S.C.	§ 119(a)-(d) or (f).			
1. Certified copies of the priority do	cuments have been received				
2. Certified copies of the priority doc		application No			
3. Copies of the certified copies of the			70		
		received in this National State	a <del>c</del>		
	application from the International Bureau (PCT Rule 17.2(a)).				
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)	•				
1) Notice of References Cited (PTO-892)		Summary (PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-	· · · · /	s)/Mail Date. <u>attached</u> .			
Information Disclosure Statement(s) (PTO/SB/08)     Paper No(s)/Mail Date	5)	nformal Patent Application			
	-,				

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## **DETAILED ACTION**

This Action is in response to the communication filed on 10/6/2006.

The amendment filed 10/6/2006 is acknowledged and has been entered.

Claims 14-20 and 24-26 are currently pending in the application and are addressed herein.

1. Any rejections not reiterated in this action have been withdrawn as being obviated by the amendment of the claims and/or applicant's arguments.

## Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 15-18 and 25 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 15 encompasses a chemical molecule set forth as chiral aep monomeric unit IV which contains an element designated as "T" which is not specifically defined in the claim. At first glance, it was assumed that "T" was the nucleotide thymine however, a closer evaluation of the claims reveals that the T in monomeric unit IV of claim 15 could be something other than thymine. For instance, also encompasses a compound having the formula ape PNA III which contains an element designated as "B" which is specifically defined in claim 15 (see last three lines of claim 15). Next, looking at steps i-v of claim 16, which depend on claim 15, it is clear that B and T can be the same (i.e., B=T). In light of the fact that claim 15 specifically defines

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"B" as a genus of specific elements which includes elements other than thymine, and further in view of the fact that 15 does not specifically define "T", it is clear the "T" of claim 15 is not limited to being thymine. Since "T" in claim 15 is not limited to thymine, it is unclear what exactly is and what is not encompassed by "T" in claim 15. Accordingly, the instant rejection is proper. It is noted that amending claim 15 to specifically define "T" such as by adding the phrase "wherein T is thymine" would obviate this rejection.

Claim 16 encompasses step iii, which reads "m=n=1, B=T, R<sub>1</sub>=H, R<sub>2</sub>=NH(CH<sub>2</sub>COOH, a=b=c=d=1, repeating twice in that order" (Emphasis added). The phrase "repeating twice in that order" renders the instant claim indefinite because it is unclear what is exactly repeated twice in that order. Applicants are asked to explain what exactly is "repeated twice in that order" and to consider amending the claim to include the explanation. Alternatively, deleting the phrase "repeating twice in that order" would obviate the rejection.

Claims 17, 18, 25 are included in the rejection because they are dependent claims which also encompass the indefinite embodiments of claims 15 and/or 16.

## Allowable Subject Matter

Claims 14, 19, 20, 24 and 26 are allowed.

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jon Eric Angell whose telephone number is 571-272-0756. The examiner can normally be reached on 9:00 a.m.- 5:00 p.m..

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Douglas Schultz can be reached on 571-272-0763. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN ÚSA OR-ĆANADA) or 571-272-1000.

J.E. Angell, Ph.D. AU 1635

ON B. ANGELL, PH.D. PRIMARY EXAMINER